

# Cracklin' Static

July 2022 Edition



**In-person and  
virtual meeting  
8 AM July 2, for  
details see pg  
4 ...**

**SNARS NET on DMR – Tuesdays 8pm**  
DMR Talk Group: 31328 SNARS

#### **SNARS Treasury Closing Balances From AE7OX As of 6-26-22**

| Account        |          |
|----------------|----------|
| Operating      | \$9,711  |
| Savings        | \$12,024 |
| Self Insurance | \$14,621 |
| PayPal         | \$2,612  |
| Convention     | \$4,212  |

**Total**                **\$43,180**

Cracklin' Static info was requested early due to Field Day, so some data may be missing.

#### **SNARS Membership as of 6-24-22**

|            |     |     |
|------------|-----|-----|
| Extra      | 152 | 33% |
| General    | 128 | 28% |
| Technician | 152 | 33% |
| Advanced   | 15  | 3%  |
| No License | 9   | 2%  |

**Total**                **456**

#### **SNARS ARRL Members as of 6-24-22**

|         |     |     |
|---------|-----|-----|
| Regular | 281 | 62% |
| Life    | 38  | 8%  |

## PRESIDENT'S VOICE

**President John Miller, N7JDM**

Email: [jmil912@gmail.com](mailto:jmil912@gmail.com)



Field Day 2022 was a success! First off, I want to extend my gratitude to those who participated by helping with the logistics, setup, operating, KP duty and closing down. To those of you who loaned out equipment, thank you, it made the difference and is most appreciated. Everyone had a great time making contacts, visiting with each other and simply being out and enjoying the event. There will be a more detailed accounting after the dust is washed off and pictures can be gathered. See you at the next meeting at the Regional Training Center next Saturday.

**73, John Miller N7JDM**



PO BOX 7727 Reno NV 89510  
 Yearly Dues: \$40.00 Individual • \$50.00 Family  
 775.453.4142 <http://snars.org>

## 2022 Officers

President.....John Miller N7JDM  
 Vice-President.....John Byerly, N7ROJ  
 Treasurer.....Bill Jones, AE7OX  
 Secretary.....Anthony Marcin, W7XM  
 Director .....Wes Vick, KG7QXE  
 Director .....Jim Shepherd, W6US  
 Director .....Barry Bettman, K6ST

## 2022 Staff

Cracklin Static .....Howie Holden, WB2AWQ  
 W7TA Trustee .....Peter DeBay, KE7VSR  
 KR7ENO Trustee.....Howie Holden, WB2AWQ  
 Control Operator .....Pat Sheehan, W7DED  
 Youth Involvement.....Barry Bettman K6ST  
 NVQSO Coordinator.....Jim Shepherd, W6US  
 Historian .....Jon Fox, KF7KTC  
 Tech Team Lead .....Pat Sheehan, W7DED  
 Membership .....Kim Farnham, KG7TMA  
 PIO .....Greg Krantz, NT7Q  
 VE Coordinator.....Krystal Rhoades, AJ6GC  
 Meeting Greeter .....Bill Jones, AE7OX  
 Noon Net Manager .....Wes Vick, KG7QXE  
 DMR Net Manager .....Anthony Marcin, W7XM  
 Reno Ham Swap .....Wes Vick, KG7QXE  
 Webmaster .....Erik Andreasen, K6CZH  
 Club Sales Manager.....Vacant  
 Recording Secretary.....Doug Edmondo, W7DBE

## Cracklin Static Publication

Editor: Howie Holden WB2AWQ - [holden7471@msn.com](mailto:holden7471@msn.com)  
 Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Cracklin' Static is published the week before meetings. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday (or whichever Saturday is the meeting) of each month.

## SNARS Wide Area Linked System

|                    |                             |            |
|--------------------|-----------------------------|------------|
| 147.030 + PL 123.0 | Sparks, Fernley, Fallon     | Online     |
| 147.210 + PL 100.0 | Reno, Sparks                | Online     |
| 147.150 + PL 123.0 | Lake Tahoe, Truckee, Carson | Online     |
| 146.925 - PL 123.0 | Lovelock, Fallon            | Online     |
| 146.670 - PL 123.0 | Winnemucca                  | Online     |
| 444.875 + PL 100.0 | Yerington                   | Not Linked |
| 444.125 + PL 123.0 | Reno Sparks                 | Offline    |

## DMR Systems

|                |                             |            |
|----------------|-----------------------------|------------|
| 444.925 + CC 1 | Reno, Sparks                | Online     |
| 444.825 + CC 1 | Dayton, Fallon, Carson      | Online     |
| 443.925 + CC 1 | Lake Tahoe, Truckee, Carson | Online     |
| 443.950 + CC 1 | Incline Village             | Offline    |
| 442.875 + CC 1 | Sparks, Fernley, Fallon     | Not Linked |
| 442.850 + CC 1 | Downtown Reno               | Online     |
| 441.950 + CC 1 | Fallon, Fernley             | Offline    |

## Fusion Systems

|                    |                      |        |
|--------------------|----------------------|--------|
| 146.610 - PL 123.0 | Reno, Carson, Dayton | Online |
|--------------------|----------------------|--------|

## IRLP / EchoLink Systems

|                    |              |        |
|--------------------|--------------|--------|
| 147.300 + PL 123.0 | Reno, Sparks | Online |
|--------------------|--------------|--------|

## Packet / APRS

|                  |                             |         |
|------------------|-----------------------------|---------|
| 145.050 - RNO    | Reno, Carson, Dayton        | Online  |
| 145.050 - ROSE   | Lake Tahoe, Truckee, Carson | Online  |
| 144.390 - TOULON | Lovelock, Fallon            | Offline |

## Standalone Systems

|                     |                      |        |
|---------------------|----------------------|--------|
| 147.390 + PL 100.0  | Reno, Carson, Dayton | Online |
| 443.075 + PL 123.0  | Reno, Carson, Dayton | Online |
| 927.0875 + PL 114.8 | Reno, Carson, Dayton | Online |

Online Offline Not Linked

**NOTE: The status of repeaters may not up to date on this page. Check with the SNARS website for repeater status.**

## Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley  
 147.150 + PL123.0 – Lake Tahoe / Truckee  
 147.210 + PL 100.0 - Reno  
 444.875 + PL 100.0 - Yerington  
 146.925 - 123.0 – Lovelock / Fallon  
 146.67 – PL 123.0 - Winnemucca

**Monday through Friday @ 12:00pm**

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

## Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0  
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

|                                |                    |
|--------------------------------|--------------------|
| ERC Net for NV and Northern CA | Monday @ 9:15pm    |
| N. Western NV ARES Net         | Thursday at 7:30pm |
| Northern Nevada Preppers Net   | Wednesday @ 8:00PM |
| Hospital Net                   | Friday @ 10:00AM   |

## Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

|                       |                    |
|-----------------------|--------------------|
| Amateur Radio Newline | Monday - 8:00PM    |
| Nevada Skywarn Net    | Wednesday - 7:00pm |

## Nets on Simplex/HF

|                     |             |                    |
|---------------------|-------------|--------------------|
| Jefferson Noon Net  | 7.204 LSB   | Daily - 12:00pm    |
| 6 Meter Net         | 50.350 USB  | Tuesday – 8:00pm   |
| 2 Meter Weak Signal | 144.250 USB | Wednesday - 8:00PM |
| 2 Meter Simplex Net | 146.500 FM  | Thursday – 8:00PM  |
| 10 Meter Net        | 28.350 USB  | Sunday – 2:00PM    |

**SNARS Weekly DMR Net – Tuesdays**  
**8:00PM**

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

## SNARS CALENDAR

**QCWA Meeting Saturday July 9, 11 AM to 1 PM,**  
**Famous Daves BBQ 4925 Kietzke Ln, Reno**

**SNARS Board Meeting Wednesday, July 13, 6:00PM.**  
**Location and mode Chin Chin, Sparks, and Zoom**

**HAM RADIO NIGHT** on Zoom 7:00 PM Monday, July 18, 2022 see <https://snars.org/hamradionight/>

**Reno QRP Group Meeting Tuesday, July 19, 11am – 12pm,** Jack's Coffee Shop #2, 605 N Wells Ave, Reno, NV. Contact Ed, WD7Y [WD7Y@sbcglobal.net](mailto:WD7Y@sbcglobal.net) for more info. If cancellation is needed, will be announced on the SNARS noon net.

**Next months SNARS Breakfast Meeting , August 6, 2022, 8 AM. Location and media mode tentative depending on Board decision.**

## WELCOME NEW MEMBERS

As of –6-24-22

|         |          |        |
|---------|----------|--------|
| Gabbi   | Ludwig   | KK7GZP |
| Brian   | Hiatt    | KK7GXR |
| Herbert | Shampine | K7BBJ  |

# SNARS In-Person and Virtual Monthly Meeting

**SNARS (hybrid in-person & virtual zoom) Monthly Meeting  
8 AM PST on Saturday July 2, 2022**

**In-Person @ Regional Public Safety Training Center (5190 Spectrum Blvd, Reno) - or - join us via Zoom**

**In Person** location (no registration, just show up)

Regional Public Safety Training Center  
5190 Spectrum Blvd, Reno  
Room 103 & 105

## **PRESENTATION**

POTA preparation for July 16th  
POTA event (with K1LB  
Woody)



**MEETING  
NOTICE!**

**To join via Zoom, register here:**

[https://us06web.zoom.us/meeting/register/tZMvdu6tqTgpH9TiKG\\_JWhQCrb\\_7L\\_oTh89N](https://us06web.zoom.us/meeting/register/tZMvdu6tqTgpH9TiKG_JWhQCrb_7L_oTh89N)

**Questions? Contact Barry [K6ST@arrl.net](mailto:K6ST@arrl.net)**

**More Info In-Person / Register Zoom: <https://snars.org/monthly-meeting/>**



# THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

## INCIDENT COMMAND SYSTEM AND PLANNED EVENTS – PART 1

While everyone should be familiar with the use of the Incident Command System (ICS) for emergencies, it is excellent for planned events. Field Day and major hamfests are good examples of such events.

The Incident Commander (IC) is in charge of the entire event. The IC will get a Delegation of Authority from the board of directors to run the event within the limitations that are agreed upon. The IC will then assign people to fill positions as needed and in turn delegate control to those functions.

The first positions to be filled will be the Operations Chief, Plans Chief, Logistics Chief and Finance/Administration Chief. To complete the Command and General Staff, a Safety Officer and Public Information Officer also will need to be appointed.

For Field Day, the Operations Chief or 'Ops' will control all of the 'on the air' part of the event. Early on, Ops would define what stations are needed. In consultation with the IC and the Logistics Chief, they will decide on a location, what sort of equipment is needed, how many personnel are required, and work with the Plans Chief to start arranging for the resources. Ops will also start looking for Division Supervisors or Group Supervisors to control the various parts of the operation. For a hamfest, Ops would be in charge of the program and events.

The Plans Chief or 'Plans' is responsible for getting the necessary personnel and equipment, tracking these resources by the Resource Unit, documenting all of this and preparing the necessary Incident Action Plans. Plans is also responsible for tracking the status and 'demobing' every thing at the end of the event. Plans will have an Incident Technology Support Specialist (ITSS) to set up the computer network for logging and registrations/ticketing.

The Logistics Chief or 'Logs' biggest job is to keep people happy... Logs will appoint a Food Unit Leader who sees that there is good food and plenty of cold water and hot coffee for the troops... They would also be working with the caterer or facility food services manager. Through the Ground Support Unit, getting large and bulky supplies to and from the site as well as managing fuel for the generators will be covered. The Facilities Unit Leader will work with the landowner for the use of

the site and with their Base Camp Managers help set up work spaces for all the operations and camping. The Communications Unit will man the VHF radio on the talk-in frequency and will be able to contact the runners who will be going for more water, generator gas and TP... The Medical Unit will handle any ouwies and dispense sunscreen and bug repellant as needed. The Supply Unit will check out and track club equipment and insure its return at the end of the event. The Security Manager will handle site security during the event.

The Finance/Administration Chief will make sure that we stay within the budget agreed to in the Delegation of Authority. They will track costs and document any losses, injury or damages. They will also do any necessary usage accounting of any rented equipment. They will work closely with the club treasurer and provide personnel to handle registrations and funds collections.

The Public Information Officer (PIO) will get the word out to the media, the general public, government officials and the Club Members. They will also be responsible for maintaining a 'sign-in' and informational location at the Field Day site. The PIO will guide tours around the site for visiting VIPs. They will be responsible for the advertizing of the event to other hams in the region. This is a very important position and we really need someone to step forward to help the club.

The IC needs to designate a Safety Officer. "Safety" has the authority to stop any action on the site that may lead to injury, sickness or damage. Prevention of any accidents is paramount to a good operation. Safety will also take charge of any 'incident within an incident' and coordinate with emergency personnel.

ICS works well because it can expand and contract with the need at any given time. It maintains 'span of control' keeping only 5-7 people reporting to a supervisor at the next level. With defined functions, it is easy to get to the right person to provide solutions. We may only have 3-4 people working on Field Day for the next couple of months, and we will have 30-50 or more by the time Field Day starts... The same thing will happen with a major Hamfest or a state convention. Next time you are up at the REOC, look at all the stations and you will see these positions and a lot more. We will be talking about the duties of most of the units in the next article. In the mean time, if you haven't already taken the IS-100 class, go to <https://training.fema.gov/is/courseoverview.aspx?code=IS-100.b> and take it.

# MIKE'S MISSIVES CHAPTER SIXTY EIGHT

Mike Katz, N7MSK

## FCC Part §97.201 Auxiliary station.

(a) Any amateur station licensed to a holder of a Technician, General, Advanced or Amateur Extra Class operator license may be an auxiliary station. A holder of a Technician, General, Advanced or Amateur Extra Class operator license may be the control operator of an auxiliary station, subject to the privileges of the class of operator license held.

(b) An auxiliary station may transmit only on the 2 m and shorter wavelength bands, except the 144.0-144.5 MHz, 145.8-146.0 MHz, 219-220 MHz, 222.00-222.15 MHz, 431-433 MHz, and 435-438 MHz segments.

(c) Where an auxiliary station causes harmful interference to another auxiliary station, the licensees are equally and fully responsible for resolving the interference unless one station's operation is recommended by a frequency coordinator and the other station's is not. In that case, the licensee of the non-coordinated auxiliary station has primary responsibility to resolve the interference.

(d) An auxiliary station may be automatically controlled.

(e) An auxiliary station may transmit one-way communications.

## SHORT TAKES (By Jim Shepherd W6US)

### CONTEST CALENDAR

The CQ VHF contest is one of the biggest events of the year for operations on 6 and 2 meters. It is on July 16 and 17 and provides a lot of activity on those bands. For the POTA fans, July 30-31 is the Tennessee State Parks on the air contest, and a good time to learn about that part of the country. These and other contest information can be found at

<https://www.contestcalendar.com/contestcal.html>

### DX

The warmer weather is helping operations to pick up. You can spin

the dial and maybe hit the jackpot with Monaco. There will be a couple of DXpeditions to the South Cook Island, and even Alaska is going to have some activity---Yes, Alaska and Hawaii are DX 'countries' due to their distance from the mainland US. More information can be found at <https://www.ng3k.com/Misc/adxo.html>

### THIRD MONDAY ZOOM HAM RADIO NIGHT

We will have our popular Ham Radio Nights via ZOOM to get your questions answered. It will be held at 7pm on Monday, July 18th. More information, including the link will be published before that date.

## NAME THAT RIG?

(Answer on page 11)



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# YOUTH INVOLVEMENT

## ARRL YOUTH LICENSING GRANT PROGRAM INFORMATION

The ARRL Board of Directors has formally endorsed a proposed program calling on ARRL to cover the \$35 application fee for license candidates younger than 18 years old. The FCC is expected to implement the \$35 application fee schedule on April 19, 2022. The Board approved the "Youth Licensing Grant Program" at its July 2021 meeting in Hartford, Connecticut. The program concept, first raised at the Board's annual meeting in January, was reviewed by an ad-hoc committee, which expanded the scope of the original motion by ARRL Southeastern Division Director Mickey Baker, N4MB.

Goals of the program include expanding the reservoir of trained operators, technicians, and electronics experts within the amateur radio community, and removing a financial obstacle to young people who wish to acquire an amateur radio license, as a means of encouraging potential careers in science, technology, engineering, and mathematics.

Under the program, ARRL would cover the one-time \$35 application fee for each qualified candidate who passes one or more amateur radio exams taken for a new license on the same day at a single examination session. Tests would have to be administered by a Volunteer Examiner (VE) team working under the auspices of the ARRL Volunteer Examiner Coordinator (ARRL VEC). Qualified candidates also would pay a reduced exam session fee of \$5

the ARRL VEC.

The new program also would "enhance ARRL's position as the leader in volunteer testing," the Board motion said. "The Board believes that the recruitment and training of young amateur radio operators is a necessary and proper mission of the ARRL, and that subsidization of the \$35 fee will reduce the number of new amateurs that otherwise would be lost from these groups," the Board said.

The new program initially would serve up to 1,000 new license applicants younger than 18 years old.

The motion gave ARRL staff "complete latitude" to determine how to reimburse eligible applicants. This program length is indefinite; it may be renewed or terminated by the Administration and Finance Committee or by the Board of Directors. The motion carried with applause from Board members.

<https://www.arrl.org/youth-licensing-grant-program>

If you would like to help out with the youth in ham radio, please contact:

Barry K6ST [k6st@arrl.net](mailto:k6st@arrl.net)

Nevada Section Youth Coordinator

ARRL (American Radio Relay League) [www.arrl.org](http://www.arrl.org)

The national association for amateur radio

## SNARS HAM RADIO NIGHT

3rd Monday of each month at 7PM PT on Zoom  
Join together and Elmer each other for Ham Radio Night on  
**MONDAY, JULY 18, 2022, 7PM**

The topic smaller breakout groups will be:

**APRS** **Analog VHF/UHF** **DMR/Fusion** **POTA**

Each participant can move themselves around to different breakout topics in zoom conferencing to enjoy.

If you have any questions or would like to be of service as an Elmer, please contact K6ST Barry [k6st@arrl.net](mailto:k6st@arrl.net)



Register below for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) , 2022, 7:00PM PST  
[https://us06web.zoom.us/meeting/register/tZlIduqurzMvG9ISZgRDYgNJx\\_xD\\_IDTujV3](https://us06web.zoom.us/meeting/register/tZlIduqurzMvG9ISZgRDYgNJx_xD_IDTujV3)



# Radio in the Park

## SNARS POTA Gathering 7-16-2022 9AM - 12PM+

Who's interested in getting together for a POTA event Saturday July 16th at 9a for several hours at Galena Creek Park (north entrance). This weekend is the quarterly

**POTA OFFICIAL EVENT TO SUPPORT YOUR PARKS POTA** <https://pota.app/-/events>

This POTA (Park On The Air) informal gathering will be an activation in the Humboldt-Toiyabe National Forest (POTA K-4391 Park) at Galena Creek Park (north entrance) on Hwy 431 near Reno. Bring your own ham radio gear, antenna's, batteries, etc and have fun together on the air with your own callsign for Parks On The Air. For more information about Parks On The Air, visit <https://parksontheair.com/>

Click on the link below and fill out the form below to express your interest in this SNARS POTA informal gathering

[https://docs.google.com/forms/d/e/1FAIpQLSelxwygCyD16Vbk\\_O6t-P-HQe-yzA8luRpPwU5dtXLsLwow/viewform](https://docs.google.com/forms/d/e/1FAIpQLSelxwygCyD16Vbk_O6t-P-HQe-yzA8luRpPwU5dtXLsLwow/viewform)

73 Barry K6ST - Sierra Nevada Amateur Radio Society



# W7SSB's FUN STUFF

## NATIONAL RADIO 1914 - 1991



Memories of a better time! My first quality multiband receiver was a National RAS 5 Navy WWII receiver. I'll always remember having my father helping me lug it home from a friend's home. I think it weighs more than I did! I used it for many years until I was given a Hallicrafters SX28 (that is another story). Boy that was a great receiver for a 15 year old. I ran that with a Viking 1 that I bought with my snow shoveling/grass cutting money, hihi !

National RAS-5 receiver in rack mount with coil decks, power supply and speaker

But back to National Radio history. The company was incorporated, in 1914, as the "National Toy Company", but by 1916 had included household appliances in their product range. This expansion led to the name change to the "National Company, Inc.". By 1923 the product line included toys, food mixers, and radio components. Radio components were to play an important part in the company's growth in the mid-1920s as they moved into the large scale manufacture of capacitors. It was at this time that two engineers from Harvard University, Fred H. Drake and Glen Browning, approached National to manufacture components to their specifications for a radio receiver of their own design. This relationship led to the production and sale of the "National Regenerative" kit for home construction of the Browning-Drake design. The set was capable of tuning the standard AM broadcast band only and could not achieve shortwave reception. By the early 1930s National had established a reputation with the amateur radio community based upon their line of [regenerative receivers](#), including the SW-3 and SW-5.



National SW-3 (L) and SW-5 (R). Both rare and collectible.

In 1935 National introduced their top-of-the-line HRO receiver. This radio included two RF stages and a crystal filter. The distinctive dial allowed KC (kHz) resetability and was a National trademark into the 1960s. With few changes other than to keep up with changing tube technology, this same basic design survived for over 20 years.

National began providing equipment to the United States and Allied government customers such as the Royal Navy in 1939. After the US declared war in 1941, National was advised by the military to "Start building HROs; we'll tell you when to stop." (**Editor's note: The HRO and the RAS -a stripped down HRO- models were extensively used in WW2 as intelligence intercept receivers**)

National began producing for the war effort, and the number of employees went from approximately 200 to about 2500 during the war. The war effort



1938 National HRO receiver

brought increased recognition and profits to National and after the war, in the late 40s, National went public.

In 1947, a National model NC-173 receiver went along with Thor Heyerdahl on the [Kon-Tiki](#) expedition. During the period in the 1950s and 60s, National produced a wide range of amateur radio equipment which was advertised extensively in many amateur radio publications. Usually new equipment was first shown in this publication in order to initiate marketing of a new item. The company would mainly opt for the inside back cover which they believed would gain prominence for their new wares. In addition, around Christmas time each year National would produce tempting advertisements festooned with holly leaves. In the late 1950s, National asked the readers of QST what they wanted in a new ham radio receiver, with the result being the National NC-300 (and its successor, the NC-303). It featured a rare 30-35 MHz input for converters for 50, 144 and 220 MHz use (220 MHz equipment was very rare at the time). In 1965, National introduced the solid state HRO 500, which did not incorporate the HRO dial system, but instead relied on a direct readout rather than a conversion scale or chart. At the time, [Popular Electronics](#) magazine reviewed the HRO 500 as "possibly the best amateur receiver ever". Today, many National radios are collected, restored and operated by vintage amateur radio enthusiasts. Through the 1970s and 1980s, National survived as a government contractor and ceased development and production of civilian equipment. However, by 1991, after continuing difficulties, the company ceased trading.

My favorite National receiver: the NC303



In the 1950's the HRO 60 was the receiver to have ! It was a great AM receiver but a poor SSB receiver. Sideband was just coming into its own in the mid 50's. Collins had the market on SSB reception with the 75A-4. Many of the amateur radio manufactures were playing catch up to Collins. When the KWS-1 and KWM-1 came out and in 1959 the 75S-1 and the 32S-1 SSB gear came out. It started the downfall for many companies.



National logo and HRO 60 with matching spkr

National, Hallicrafters, Johnson, Hammarlund, and many others made SSB equipment into the seventies. Drake was the most successful! During the seventies we had the invasion of the Japanese radios with more features and cheaper prices that put many of the old line companies trying to survive. Many made CB radios, satellite tv systems, and other equipment to stay in business. Many were bought out and gradually disappeared! Even Collins got out of the amateur market.

I've been very lucky to have been able to use both the vintage equipment and now radios that have so many bells and whistles that I may never use, hihi. It is hard to believe I been licensed for 62 years! The future of amateur radio and equipment is any body's guess!

Stay tuned! Don W7SSB

# ARES NEWS

## EVENTS CALENDAR

| EVENT 2022                         | DATE     | DATE END | SPONSOR/ORGANIZER              | COORDINATOR          | CONTACT                                                                  |
|------------------------------------|----------|----------|--------------------------------|----------------------|--------------------------------------------------------------------------|
| Indian Valley Century Bicycle Ride | TBD      |          | Plumas Amateur Radio Ops       | Larry Trotter KI6YUK | <a href="mailto:dltrtrotter@sbcglobal.net">dltrtrotter@sbcglobal.net</a> |
| Running With the Bears             | TBD      |          | Plumas Amateur Radio Ops       | Larry Trotter KI6YUK | <a href="mailto:dltrtrotter@sbcglobal.net">dltrtrotter@sbcglobal.net</a> |
| Bear Growl Gravel Grinder          | TBD      |          | Plumas Amateur Radio Ops       | KJ6CUG               | <a href="mailto:dltrtrotter@sbcglobal.net">dltrtrotter@sbcglobal.net</a> |
| Tahoe Rim Trail                    | 7/15/22  | 7/17/22  | Tahoe Mountain Milers          | Bob Miller WA6MTY    | <a href="mailto:wa6mtty@gbis.com">wa6mtty@gbis.com</a>                   |
| Death Ride                         | 7/16/22  |          | Tahoe Amateur Radio Assn       | Paul Gulbro, WA6EWW  | <a href="mailto:wa6eww@juno.com">wa6eww@juno.com</a>                     |
| Vegas to Reno Off Road Race        | 9/10/22  | 9/12/22  | Best in the Desert Racing Assn | Keith KC7HTK         | <a href="mailto:kc7htkeith@hotmail.com">kc7htkeith@hotmail.com</a>       |
| Tour De Tahoe                      | 9/11/22  |          | Tahoe Amateur Radio Assn       | Paul Gulbro, WA6EWW  | <a href="mailto:wa6eww@juno.com">wa6eww@juno.com</a>                     |
| Reno Air-Races                     | 9/14/22  | 9/18/22  | WC-ARES                        | Bob Miller WA6MTY    | <a href="mailto:wa6mtty@gbis.com">wa6mtty@gbis.com</a>                   |
| Grinduro SBTS                      | TBD      |          | Plumas Amateur Radio Ops       | Larry Trotter KI6YUK | <a href="mailto:dltrtrotter@sbcglobal.net">dltrtrotter@sbcglobal.net</a> |
| Nevada Day Parade                  | 10/29/22 |          | NV AREA NW DEC                 | John Abrott KD7NHC   | <a href="mailto:iabrott77@gmail.com">iabrott77@gmail.com</a>             |
| Sparks Turkey Trot                 | 11/24/22 |          | WC-ARES                        | Bob Miller WA6MTY    | <a href="mailto:wa6mtty@gbis.com">wa6mtty@gbis.com</a>                   |

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

Last month, May, I traveled to Emmitsburg MD along with 74 other members of our Regional Emergency Operations Center (REOC) Crisis Action Team. These members work for many of our local Reno, Sparks and Washoe County agencies that would respond when activated, for a major emergency event. This trip was for weeklong earthquake training at the FEMA Emergency Management Institute. Most of the people that went are new to the positions that they would report to when activated. So, we were trained how to work together during or after a major event, in this case, an earthquake.

My goal was to meet the new people that I would provide Damage Reports to, that are received by Amateur Radio. Such as:

**Building damage:** Description, home, office, business Location address or (Lat/Lon if you have GPS), Impact: Major damage, Destroyed, or on fire., Tree on building.

**Road damage:** Location address or (Lat/Lon if you have GPS), Cracked, Section destroyed, Overpass, Major damage, Destroyed.

**Utilities:** Location address or (Lat/Lon if you have GPS), Power pole(s) down, live wires, unknown, Pole(s)/wires on vehicles, Pole(s) /wires on buildings, Water main break, Gas main break.

While attending the training I began to realize the methods we all have to report damage to the REOC. Since there are over 2000 Hams listed in QRZ, reports by voice, using VHF, UHF, HF or DMR or Fusion will be slow, but effective. The fastest way to send Damage Reports is by using WINLINK EXPRESS, a radio Email program that doesn't require a local Internet connection. You don't even need an email address, just put in a call sign like KR7EOC and we can recover the email. In fact, you can transmit the reports, radio to radio without the Internet. Also, you can take a picture of the damage with your phone, transfer to your laptop using Bluetooth and attach to the email.

Try it out, log on to [www.winlink.org](http://www.winlink.org) and select "Book of Knowledge".

The Winlink Book of Knowledge. "Getting started" steps for new users.

Download and install Winlink Express, read the help. Play with it, then read the help again.

Read Winlink's Wikipedia article for a well-rounded introduction.

View the Winlink Express video series. By Rob K6RJF SDG ARES.

View a Winlink Express training series, by "WaveTalkers".

Start using Winlink on "Telnet" via the internet, so you become proficient with the software.

Check in to the Friday morning Hospital NET. Send test emails to KL7RI or W7SMY (St. Mary's Club Call). Join us on Winlnk.

Bob Miller WA6MTY

Emergency Coordinator for Washoe County

Amateur Radio Emergency Service

775 843-5952 [www.wcares.us](http://www.wcares.us) [wa6mtty@gbis.com](mailto:wa6mtty@gbis.com)

## SNARS NEEDS YOUR HELP! (Submitted by Jim Shepherd W6US)

### GRANT WRITER NEEDED

SNARS is in the process of rebuilding their repeater system. The existing equipment was new about 40 years ago and needs replacement. There are opportunities to get grants to help purchase the new equipment, but we need someone who is familiar with procedures of applying for these grants. They would have to be able to acquire the sponsor's requirements, coordinate with our Board of Directors, and write the necessary documents in the correct format for submission to the sponsor. Past experience applying for grants in any industry or academic setting is needed for this position. This is like all the other staff positions for SNARS, an unpaid position, but expenses like letterhead and postage will be reimbursed. If you are interested, please contact the SNARS Board via [snars@snars.org](mailto:snars@snars.org).

# FUN STUFF FOR JULY

July isn't known for a lot of great contests, and there are no State QSO parties, but here are the better-known ones, ARRL or NCJ sponsored shown in BOLD:

1 July 0000 to 1 July 2359 1.8-144 RAC Canada Day Contest CW Ph  
[www.rac.ca](http://www.rac.ca)

9 July 1200 to 10 July 1200 1.8-28 IARU HF World Championship  
CW Ph [www.arrl.org/iaru-hf-world-championship](http://www.arrl.org/iaru-hf-world-championship)

16 July 1800 to 17 July 0559 3.5-28 North American QSO Party,  
RTTY [www.ncjweb.com](http://www.ncjweb.com)

16 July 1800 to 17 July 2100 50, 144 CQ Worldwide VHF Contest CW  
Ph Dig [www.cqww-vhf.com](http://www.cqww-vhf.com)

23 July 1000 to July 23 2159 3.5-28 YOTA Contest CW Ph  
[www.ham-yota.com/contest](http://www.ham-yota.com/contest)

30 July 1400 to 31 July 2200 3.5-50, Satellite Tennessee State Parks  
on the Air All [www.tnpota.org](http://www.tnpota.org)

Check out the rest here:

<http://www.arrl.org/files/file/Contest%20Corral/2022/July%202022%20Corral.pdf>

If you're not into contests, there's always DX to chase! Although July is a bit slim overall, there are some good catches this month, from around the globe! Here's a few of the better ones:

|                  |                      |         |
|------------------|----------------------|---------|
| Jun 24 to Jul 02 | Ogasawara            | JD1AJD  |
| Jun 26 to Jul 06 | Market Reef          | OJO     |
| Jun 27 to Jul 11 | Greenland            | OX3LX   |
| Jun 28 to Jul 05 | Liechtenstein        | HB0     |
| Jun 28 to Jul 12 | St Pierre & Miquelon | FP      |
| Jun 30 to Jul 08 | Ogasawara            | JD      |
| Jul 01 to Jul 05 | Fernando de Noronha  | ZY0FUN  |
| Jul 01 to Jul 12 | Namibia              | V5      |
| Jul 10 to Jul 16 | Tonga                | A35JP/p |
| Jul 14 to Jul 21 | South Cook Is        | E51RMP  |

Check <https://www.ng3k.com/Misc/adxo.html> for updates on DXpeditions to make sure they're still a go and see other listings!

## RENO QRP SLOW SPEED CW NET

NEXT NET SESSIONS (two of them) WILL BE July 7 and 21, at 10 AM Pacific. Check with [WD7Y@sbcglobal.net](mailto:WD7Y@sbcglobal.net) to confirm times. Target frequency 7.045 MHz, if busy search somewhere near that frequency.

THE FOLLOWING SHOULD ALWAYS BE IN YOUR REPORT:

NAME, RST, LOCATION, RIG, POWER, ANTENNA.

REMEMBER TO INCLUDE RST IN YOUR REPORT

Feel free to add something else in your exchange.

Take some time to report RST for other OP's or anything else that comes to mind.

Sharing information about you and your equipment will accomplish two things.

First It gives you and everybody else practice sending and copying.  
Second It is nice to spend time on the air with your friends. Consider this a QRP meeting on the air.

Relax and have some airtime fun with your friends.

73/72 Ed/WD7Y

## NAME THAT RIG (from page 6)

Affectionally known as "The Benton Harbor Lunchbox", the Heathkit "Tener", "Sixer", and "Twoer", HW-19, HW-29, and HW-30 were released in 1960. These very affordable - \$40 - (and thus very basic!) and identical-looking transceivers, covering 10, 6, or 2 meters, featured a built-in 117VAC supply, the ability to operate from external DC supplies, a tunable super-regenerative receiver, crystal controlled transmitter with 5 watts input, a transmit-receive switch, a microphone, and little else in the way of control. The super-regenerative receiver was a throwback to the "Ultra-high" frequency days of the 30s and 40s. The super-regen receiver was as broad as a barn door, yet extremely sensitive. But at 5 watts input (and maybe 2-3 watts out) there was little need for real sensitivity. The selectivity was an issue, however. But these "Lunchboxes" helped many a ham on a severe budget to get into the VHF game, which was around the time Novice operators had just been granted limited 2 meter privileges. Assembly took perhaps two nights. Add some kind of VHF antenna system, and you were on the air! A little-known fact, Heath also supplied an 11 meter (CB) version, the CB-1. Super-regens are so broad, they could have received all 23 CB channels at once. Can't imagine that being practical. My Dad, WA2UEJ (SK) was big on VHF, and I heard many a QSO with people using the "Lunchbox". Heath sold the last of them in 1971.

## FIELD DAY AND POTA PIX AND STORIES WANTED!

Did you do Field Day, or will you do the SNARS POTA Event in Galena Creek Park (or any POTA or SOTA), whether with SNARS or on your own? SNARS has had a "Field Day" Summer Special Cracklin' Static for many years now, featuring Field Day and other summer radio events. If you've got photos, stories, anecdotes, etc. of your Field Day or POTA, SOTA or other events, and would like to have them published in SNARS Cracklin' Static Summer Special, send them to me, Howie Holden WB2AWQ: [WB2AWQ@arrl.net](mailto:WB2AWQ@arrl.net) by July 30.



# FCC NEWS

Update your FCC Cores2 account before July 15th.



## PUBLIC NOTICE

Federal Communications Commission  
45 L Street NE  
Washington, DC 20554

News Media Information 202-418-0500  
Internet: [www.fcc.gov](http://www.fcc.gov)  
TTY: 888-835-5322

DA 22-508

Released: May 27, 2022

### OFFICE OF MANAGING DIRECTOR WILL DECOMMISSION LEGACY COMMISSION REGISTRATION SYSTEM ON JULY 15, 2022

MD Docket No. 10-234

The Office of Managing Director will decommission the Federal Communications Commission (FCC or Commission) Legacy Commission Registration System (CORES) (Legacy CORES) on July 15, 2022.<sup>1</sup> The current version of CORES (called CORES2 herein and found at <https://apps.fcc.gov/cores/userLogin.do>) has been in use since 2016 and should be used to register for or maintain an FCC Registration Number (FRN).<sup>2</sup> Using CORES2 for FRN-related transactions requires FRN registrants to set up an account with a unique username (by providing a valid e-mail address)<sup>3</sup> and password to associate with their existing or new FRN(s).<sup>4</sup> The FRN registrant's email address is then established in the system as their username. **Users already registered in CORES2 can continue to manage their FRNs in CORES2 without change. No additional actions are required for CORES2 users.**

<sup>1</sup> Commission rules require an FCC Registration Number (FRN) to be supplied by anyone doing business with the Commission. 47 CFR. § 1.8002. Any business or individual wishing to conduct business with the Commission must register through CORES to obtain an FRN. 47 CFR. § 1.8001. The FRN is a 10-digit number used to identify the registrant's business dealings with the Commission. *Id.*

<sup>2</sup> CORES2 allows users to (1) Create FRNs; (2) Modify FRNs; (3) Associate FRNs to different user accounts; (4) View FRN financial data; and (5) Make payments. See also <https://apps.fcc.gov/cores/userLogin.do>.

<sup>3</sup> To finalize the decommissioning of Legacy CORES, the Commission updated 47 CFR 1.8002(b) to require registrants to provide a valid e-mail address when registering for an FRN through CORES. *Amendment of Part 1 of the Commission's Rules, Concerning Practice and Procedure, Amendment of CORES Registration System*, MD Docket No. 10-234, Report and Order, 36 FCC Rcd 10773 (2021) (CORES Order); Federal Communications Commission, Practice and Procedure, CORES Registration System, 86 Fed. Reg. 59858 (Oct. 29, 2021).

<sup>4</sup> Before accessing CORES2, users must establish an FCC username account in the FCC User Registration System by providing a valid e-mail address and creating a password. See <https://apps2.fcc.gov/fccUserReg/pages/createAccount.htm>.

<sup>5</sup> The Commission directed the Office of Managing Director to announce the end date for access to Legacy CORES. CORES Order, para.11.

Legacy CORES will be retired on July 15, 2022 at 6 pm.<sup>5</sup> Once Legacy CORES is retired, users will be unable to make any changes to their FRNs in that system, including resetting their passwords. Users should be aware that they will need to register in CORES2 to gain online access and manage their FRN(s). See below for help with FRN registration in CORES2.

(continued on following page.....)



**Federal Communications Commission DA 22-508**

*Recommended steps prior to July 15<sup>th</sup>* To help prepare for any upcoming Commission business, Legacy CORES users are encouraged to establish an FCC username account in the FCC User Registration System, and then to access CORES2 to associate their FRN(s) with their username. Legacy CORES should not be used for creating new FRNs even though it will remain open through July 15, 2022.

The Commission is in the process of transitioning its various online systems to CORES2. Certain Commission systems already require access using a username and password that have been registered in the FCC User Registration System and associated with FRN(s) in CORES2. Other Commission systems will continue to allow access using the FRN and password established in the Legacy CORES. Users may also log in to these systems using an FRN and username password, established in CORES2. Over time, Commission systems that have not yet transitioned will be updated to require a username and password obtained through the FCC User Registration System and may redirect users to use CORES2 to associate their FRN(s) with a valid FCC username. Future system transitions will be handled at different timeframes through separate notifications.<sup>6</sup>

*Payment and Payment-Related Transactions* Users that need to pay annual regulatory fees, view Red Light status details, pay Universal Licensing System (ULS) fees, and complete payments for all FCC filings and fees will be required to use a username and password with an FRN associated with a username in CORES2 to authorize these transactions according to the following timetable:<sup>7</sup>

| <b>Payment Transaction</b>                                                                                                                                                              | <b>Date Access Will Transition to CORES2 Username and Password</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Annual Regulatory Fees                                                                                                                                                                  | July 15, 2022                                                      |
| Red Light Status Detail                                                                                                                                                                 | August 5, 2022                                                     |
| Universal Licensing System Payments (ULS Pay Fees Link utilized by Electronic Batch Filing filers)                                                                                      | August 26, 2022                                                    |
| Application Fee Payments (including completing payments on any remittances awaiting payment completion for all FCC filings and fees. This includes ULS Payments from individual filers) | November 18, 2022                                                  |

<sup>6</sup> CORES Order, para. 13.

<sup>7</sup> FCC payments and related transactions can be made at <https://apps.fcc.gov/cores/paymentFrnLogin.do>.

*For Help with Registering in CORES2* CORES2 is available at <https://apps.fcc.gov/cores/userLogin.do>. Before registering for or managing an FRN in CORES2, users that have not established their username and password must first create an account by entering their username (i.e., e-mail address) and a password on the FCC User Registration System webpage: <https://apps2.fcc.gov/fccUserReg/pages/createAccount.htm>. Detailed information about the impact of decommissioning Legacy CORES and the transition to CORES2 can be found at: <https://apps.fcc.gov/cores/html/legacyCoresDecommission.html>. For additional support, please visit the FCC Registration Help Pages. You can also call the FCC Licensing Hotline, (877) 480-3201 Option 1, or visit the e-support page.



# Board of Directors Meeting Minutes

June 8, 2022 - 6:00PM

At Chin Chin plus Zoom

## 1. Call to order and roll call at 6:00 PM

### Board of Directors:

|                      |    |                     |    |                    |   |
|----------------------|----|---------------------|----|--------------------|---|
| Anthony Marcin, W7XM | P  | Barry Bettman, K6ST | P  | John Miller, N7JDM | P |
| Bill Jones, AE7OX    | NP | John Byerly, N7ROJ  | NP | Wes Vick, KG7QXE   | P |
| Jim Shepherd, W6US   | P  | Doug Edmondo, W7DBE | P  |                    |   |
|                      |    | (Scribe)            |    |                    |   |

### Guest(s) In attendance:

## 2. Approval of Minutes - Discussion/Action

The May meeting minutes were approved

## 3. Approval of Agenda - Discussion/Action

The agenda was approved

## 4. Reports

**A. President's Report** – Nothing much, did get three people to volunteer to help with Field Day

**B. Secretary Report** – Sitting at 460 members

**C. Treasurer** – May 2022 End of Month, Operating: \$10,368, Savings: \$12,024, Self Insurance: \$14,620, Paypal: \$1,568, Convention: \$4,212. Memberships 26.

**D. Technical Team – Pat / John**

Repeater Upgrade – No report

**E. Control Operators / Trustee**

Report - No report

#### **F. Events**

Field Day: The board discussed logistics and decided to add a sign-up form to the website. There will be a planning meeting one week prior to the event.

#### **G. Education & Youth Activities**

1. Kids day is in two weeks – nothing official is planned
2. Spring Creek, Testing and Field Day.

#### **H. Noon Net - Noon Net Manager**

Going well, no issues. Will announce the Field Day sign up form on the net.

### **5. Old Business**

- A. In Person Meetings – Still debating and discussing locations and costs.
- B. Club Swag – No report
- C. Out door Club event – Potential to participate in POTA and SOTA events in July, There is also a potential for other activities.

### **6. New Business**

Discussed PIO activities for Field Day. Jim Shepherd noted that ARRL has made changes for this year.

### **7. Board member and Public Comments**

Time for board member and public comments not discussed above

**John M.** - Nothing more, noted that there was a 9 year old HAM at the Lost and Found Event.

**Wes V.** - Nothing more

**Barry B.** – Noted the 4x4 event went well, maybe we can do other activities with the group. Consider doing a registration for in person attendance at meetings (Better count for refreshments).

**Tony M.** - Nothing more

**Jim S.** - Would like the tech committee to try and get people up to to snuff on signal quality for the net(s).

There were no public comments.

### **8. Adjournment - Action**

- A. Next Meeting: July 13th, 2022. Location Chin Chin plus Zoom
- B. Adjourned at 18:45